

## BOOKS RECEIVED

FAUTIN, DAPHINE GAIL, DOUGLAS J. FUTUYMA, and FRANCES C. JAMES, eds. 1996. **Annual Review of Ecology and Systematics. Volume 27.** (ISBN 0-8243-1427-1, hbk). Annual Reviews Inc., 4139 El Camino Way, P.O. Box 10139, Palo Alto, CA 94303-0139. \$52.00. 648 pp.

There is quite a mix of articles reviewing the fields of ecology and systematics for 1996. A total of 20 articles are presented followed by a Subject Index, Cumulative Index of Contributing Authors, and a Cumulative Index of Chapter Titles, Volumes 23-27. The contents are as follows: Early history and progress of women ecologists: Emphasis upon research contributions. Forest Canopies: Methods, hypotheses, and future directions. Extinction by hybridization and introgression. Evolutionary significance of resource polymorphisms in fish, amphibians, and birds. Management of the Spotted Owl: A case history in conservation biology. Trouble on oiled waters: lessons from the Exxon Valdez Oil Spill. Evolutionary significance of local genetic differentiation. Rates of molecular evolution: Phylogenetic issues and applications. Herbivory and plant defenses in tropical forests. Mechanisms creating community structure across a freshwater habitat gradient. Natural freezing survival in animals. Demographic and genetic models in conservation biology. Gene trees, species trees, and systematics. Incidence and consequences of inherited environmental effects. Recruitment and the local dynamics of open marine populations. When does morphology matter? Adaptive evolution of photoreceptors and visual pigments in vertebrates. Microbial biodiversity: Domains and Kingdoms. The geographic range: Size, shape, boundaries, and internal structure.

JAMES STUBBENDIECK, STEPHAN L. HATCH, AND CHARLES H. BUTTERFIELD. 1997. **North American Range Plants.** Fifth edition. (ISBN 0-8032-9243-0, pbk). University of Nebraska Press, 312 North 14th Street, Lincoln, NE 68588-0484. (402) 472-3581. \$25.00. 501 pp. Illustrated.

"The 200 species in this book were selected because of their abundance, desirability, or noxious properties. The list of plants was developed over a nearly 40-year period by coaches of range plant identification teams and faculty from the colleges and universities with range management programs. The formal list is now the Master Plant List for the International Range Plant Identification Contest sponsored by the Society for Range Management (1839 York Street, Denver, CO 80206)." Each species is treated with the following information: Tribe, species, common name, life span, origin, and season, followed by more detailed information on Inflorescence Characteristics, Vegetative Characteristics, Growth Characteristics, Forage Value, and Habitat. An illustration and range map are provided for each plant.